**Preliminary Problem for Code Samurai 2022**

The government is constantly undertaking various public projects to improve and maintain its infrastructure. However, the sheer number of projects being implemented by different government agencies simultaneously often leads to confusion among residents.

This preliminary version of the hackathon problem aims to develop an app to visualize the various approved public projects, currently being implemented in Bangladesh, on a map. The developed app must be user-friendly and allow residents to easily access information about their area's ongoing public projects and report project issues or apprehensions.

To do so, you'll need to use the given **projects.csv** file containing the essential details of the project data and design and develop a solution app to visualize the data on a map. The solution allows residents to see the project offices on a map, click on them to view project information details, and be able to post issues or concerns regarding the project. The users should be capable of viewing projects by filtering them by category and project time window. The solution app should be able to show additional visualization on the percentage of time remaining against the time of completion.

Additionally, the admin users of your developed app should be capable of visualizing and filtering the projects by the title, agencies, etc, and sorting them according to the number of issues.

You can use any programming language to design and develop the app - whether an APK for a mobile app or a deployed Web App.

**Projects.csv will contain the following columns :** Project name, category, govt agency, description, start time, end time, total budget (Millions in JPY), completion percentage, geo-coordinates. All date fields will have the format YYYY-MM-DD.

**Submission:** Each team should submit an app using the form below : <https://forms.gle/Fk75HGUs24PfXx7WA>

**Submission deadline : December 19, 11:59PM**

**Submission scoring :** There will not be any disqualification penalty, but teams might miss scoring for the lack of submission.

Note : You can use any mapping tool to visualize the data - mapbox, openstreetmap, google map.